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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/577,916	05/01/2006	Ryoji Funahashi	062440	6898	
388.4 7550 IO0802008 VESTERMAN, HATTORI, DANNIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700 WASHINGTON, DC 20036			EXAM	EXAMINER	
			TAI, XIUYU		
			ART UNIT	PAPER NUMBER	
	,		1795		
			MAIL DATE	DELIVERY MODE	
			10/03/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/577.916 FUNAHASHI, RYOJI Office Action Summary Examiner Art Unit Xiuvu Tai 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 01 May 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/0E)
 Paper No(s)/Mail Date ________

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-6 have been considered but are
moot in view of the new ground(s) of rejection necessitated by applicant's amendment.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Chiba et al (SOLID STATE IONICS 152-153 (2002) 575-582).
- 4. Regarding claims 1, Chiba et al disclose a material having composition represented by La_{1-y}Sr_yNi_{1-x}Fe_xO₃ (x=0.3-1-0, y=0-0.6; Abstract; Experimental; Results and Discussion), which satisfies the formula cited in the claim. The reference of Chiba is silent about whether this composite oxide has a negative Seebeck coefficient at 100C or higher. However, since the composition of Chiba meets the formula cited in the claim, it is inherent to have the same properties as the claimed oxide, particularly the Seebeck coefficient.
- 5. Regarding claim 2, Chiba et al disclose a material having composition represented by La_{1-y}Sr_yNi_{1-x}Fe_xO₃ (x=0.3-1-0, y=0-0.6; Abstract; Experimental; Results and Discussion), which satisfies the formula cited in the claim. The reference of Chiba is silent about whether this composite oxide has an electrical resistivity of 10 or less at

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100C or higher. However, since the composition of Chiba meets the formula cited in the claim, it is inherent to have the same properties as the claimed oxide, particularly the electrical resistivity.

- 6. Regarding claims 3 and 4, Chiba does not indicate whether the composition is an n-type thermoelectric material. However, since the composition of Chiba meets the formula cited in the claim, it is fully capable of functioning as an n-type thermoelectric material.
- 7. Regarding claims 5 and 6, since the component of the cited thermoelectric module is the n-type material comprising the claimed oxide, the composition represented by La_{1-y}Sr_yNi_{1-x}Fe_xO₃ (x=0.3-1-0, y=0-0.6) as disclosed by Chiba meets the formula cited in the claim. Therefore, La_{1-y}Sr_yNi_{1-x}Fe_xO₃ (x=0.3-1-0, y=0-0.6) of Chiba reads on the instant thermoelectric module.

Conclusion

 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xiuyu Tai whose telephone number is 571-270-1855. The examiner can normally be reached on Monday - Friday, 7:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexa Neckel can be reached on 571-272-1446. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/X. T./ Examiner, Art Unit 1795

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/Alexa D. Neckel/

Supervisory Patent Examiner, Art Unit 1795